

**FIRE INVESTIGATOR I  
STUDY GUIDE**

A written examination for the class of **FIRE INVESTIGATOR I** to be administered in **JEFFERSON F.P.D.** on **SEPTEMBER 2, 2015**, will consist of approximately **100** multiple-choice questions. The examination will test your knowledge in the following subject areas:

<b>SUBJECT AREA/KNOWLEDGE</b>	<b>APPROXIMATE % OF EXAM</b>
<b>FIRE HAZARDS</b>  Knowledge of the factors which constitute ordinary or special fire hazards, including material, condition, or negligence which may contribute to the start of fire or increase the extent or severity of a fire incident.	11.0%
<b>FIRE INVESTIGATION</b>  Knowledge of the procedures for conducting a fire investigation and for determining the cause of a fire, including deciding what may be considered unusual at a fire scene; char and burn patterns; factors affecting fire spread; determination of the point of origin and probable cause of a fire; reconstruction of the fire scene; estimation of loss or damage caused by the fire; reconstruction of the fire scene; interview procedures; and collection of evidence, including fire scene photography.	34.0%
<b>EVIDENCE COLLECTION</b>  Knowledge of evidence collection practices and procedures, including knowledge of what constitutes admissible evidence in a court of law; of the procedures for securing and protecting evidence and the legal parameters relative to evidence security; and of the use of basic photography equipment.	11.0%
<b>FIRE CHEMISTRY</b>  Knowledge of the chemistry of fire, including ignition temperatures and properties of flammable and combustible materials, flame and smoke spread, and products of combustion.	13.0%
<b>FIRE RECORDS AND REPORTS</b>  Knowledge of effective records-keeping practices, including preparation, content, control, and format; and of the information gathering process and procedures for completing required reports, including completing necessary sketches and diagrams, in order to document the performance of fire prevention duties.	11.0%

SUBJECT AREA/KNOWLEDGE	APPROXIMATE % OF EXAM
<b>PUBLIC FIRE EDUCATION</b>  Knowledge of the principles of public fire education needed to inform the public about fire safety during the performance of regular fire prevention duties.	11.0%
<b>PUBLIC RELATIONS</b>  Knowledge of accepted public relations practices in order to interact with other agencies, the public in various situations including fire prevention activities.	9.0%

### REFERENCE LIST

While the entire list of reference material will be useful to you in your preparation for the upcoming examination, the **majority** of test questions are sourced from those references listed under the Primary List.

### PRIMARY REFERENCE MATERIAL

**KIRK'S FIRE INVESTIGATION**, Brady, A Prentice-Hall Division, Englewood Cliffs, New Jersey, 07632, 5th ed., 2002.

**NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) PUBLICATIONS AND STANDARDS:**

**FIRE PROTECTION HANDBOOK**, NFPA, 19th ed., 2003.

**INTERNATIONAL FIRE SERVICE TRAINING ASSOCIATION (IFSTA)/ FIRE PROTECTION PUBLICATIONS** (Training Manuals):

Introduction to Fire Origin and Cause, 3rd ed., 2005.

Essentials of Firefighting and Fire Department Operations, 5th ed., 2008.

Fire and Life Safety Educator, 2nd ed., 1997.

**EFFECTIVE SUPERVISORY PRACTICES**, International City Management Association (ICMA), 1120 G Street, N.W., Washington, D.C. 20005, 4th ed., 2005.

**NOTE: Obtain through LSU Firemen Training Program or IFSTA Fire Protection Publications.**

The local civil service board should make this study guide available to all applicants in whatever manner the board deems appropriate.

While there are no provisions requiring this office to provide study guides for any competitive or promotional examinations, such material will be provided as a service to assist applicants in preparing for an examination. The State Examiner's office has no control whatsoever over the local availability of reference material (mentioned in the study guides), nor do we feel constrained to limit examination questions to only that material which is available locally. Examination content, weighting of subject areas, and length of examination, may vary with each administration of an examination to reflect any updated job analysis information. Percentages and numerical estimations are provided as approximations.